LC100060 Sweex Wireless LAN USB 2.0 Adapter 54 Mbps

Introduction

Thank you for buying this Sweex Wireless LAN USB 2.0 Adapter 54 Mbps. This USB adapter allows you to set up a wireless network easily and in no time at all. The USB adapter complies with all international standards for wireless communication such as IEEE 802.11b, IEEE 802.11g and CE.

It is compatible with all major operating systems and has a maximum data transfer speed of 54 Mbps, which is more than sufficient for wireless communication with the Internet, for example. Thanks to the USB interface, the adapter is easy to use with portable or notebook computers.

Depending on conditions, the USB adapter has a range of up to 30 metres indoors and up to 75 metres outdoors. For security reasons, the USB adapter is compatible with the WEP 64/128/256-bit protocol, which means that data is encrypted before it is transmitted. The compact design of this USB adapter makes it easy to carry around and ideal for use while travelling, in the office or at home.

We advise you to first read this manual carefully to ensure the correct operation of this product. If, after reading this manual, you still encounter problems while installing or operating the product, you can find more information on our website at: www.sweex.com.

Contents of the package

Before starting the installation, first check that all necessary parts are present. The box should contain the following parts:

- Sweex Wireless LAN USB 2.0 Adapter 54 Mbps
- A CD-ROM containing drivers and a comprehensive English-language manual
- This manual

Should any of the above parts be missing, please contact your supplier.

Specifications

- Supports: IEEE 802.11g and IEEE 802.11b
- Maximum data transfer speed: 54 Mbps
- Auto fallback
- Interface: USB 2.0, downward compatible with USB 1.1
- Ralink chipset
- Security: 64/128/256-bit WEP encryption, WPA and IEEE 802.1x
- Aerial: built-in aerial for sending and receiving
- Europe: 13 channels, North America: 11 channels
- Plug and Play
- Modulation: OFDM with BPSK, QPSK, 16QAM, 64QAM (11g), BPSK, QPSK, CCK (11b)
- Emission: DS-SS (Direct Sequence Spread Spectrum)
- Bit error rate: 1E-5 @ -83 dBm
- Transmission capacity: 14 dBm
- ISM Band frequency: 2.4000 - 2.4835 GHz
- Supports: Windows 98SE, 2000 and XP

Additional Features

- 2 x LED: TX/RX and Link
- Power consumption: Tx: < 480 mA, Rx: < 246 mA
- Sensitivity of receiver: 54 Mbps OFDM, 10% BER, -68.9dBm, 11 Mbps CCK, 8% BER, -86.1dBm
- Operating temperature: 0° - 45°C
- Maximum air humidity: 95%
- Dimensions: 81 x 28 x 10 mm
- Certification: FCC, CE

Installation

The installation depends on the operating system you are using. This manual will describe installation for the following operating systems:

- Windows 98 Second Edition
- Windows 2000
- Windows XP (Home and Professional)

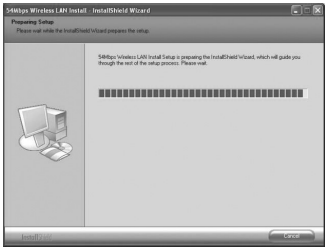
Important!

Developments in hardware and software are extremely quick, so ensure your operating system is up-to-date before commencing with installation. You can do this very easily by starting Internet Explorer and selecting Windows Update in the Tools menu.

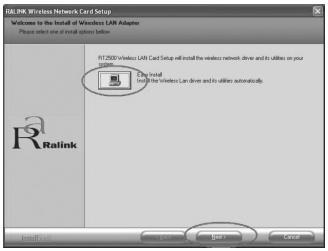
Installation procedure

We recommend you install the software and drivers first before connecting the hardware.

Insert the supplied CD-ROM into the CD-ROM drive. An options screen will start automatically. In this menu, select the first option "Install software" and click on "Open". If the start screen does not appear automatically, click the "Start" button and then select "Run". Type "X:\setup.exe" in the window that appears (where X is the drive letter of your CD-ROM drive).


54Mbps Wireless LAN Install - InstallShield Wizard
Preparing Setup
Please wait while the InstallShield Wizard prepares the setup.
54Mbps Wireless LAN Install Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
InstallShield
Cancel

Click on 'Easy Install' or 'Next' to continue the installation procedure.

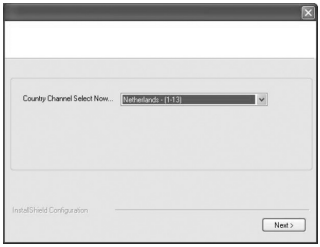

RALINK Wireless Network Card Setup
Welcome to the Install of Wireless LAN Adapter
Please select one of install options below.
RT2500 Wireless LAN Card Setup will install the wireless network driver and its utilities on your system.
Easy Install
Install the Wireless Lan driver and its utilities automatically.
Ralink
InstallShield
Next
Cancel

N.B.

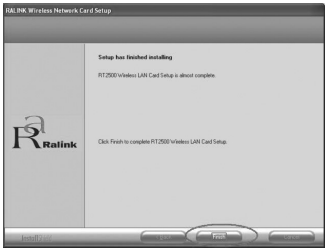
You may not have sufficient rights under Windows 2000 to install drivers and software. If this is the case, please contact your system administrator. You will need administrator rights to install new hardware and software.

If you are using Windows 2000 or XP as your operating system, a message may appear stating that the driver has not been digitally signed by Microsoft. This will not affect the operation of the hardware. Click on "Yes" to continue.

The following screen will appear: Select the correct country code and click on "Next".



Click on "Finish" to complete the installation procedure.


RALINK Wireless Network Card Setup
Setup has finished installing
RT2500 Wireless LAN Card Setup is almost complete.
Ralink
Click Finish to complete RT2500 Wireless LAN Card Setup.

"Utility Selection" will now appear.

Utility Selection
Use RaConfig (Without 802.1x support)
Use XP Wireless Zero Configuration(Full Wi-Fi Protected Access(TM) support with additional patch from Microsoft)
OK

Here you can opt to carry out the configuration procedure via the supplied software or the XP configuration software. The configuration procedure is described in greater detail in the comprehensive English-language manual on the CD-ROM.

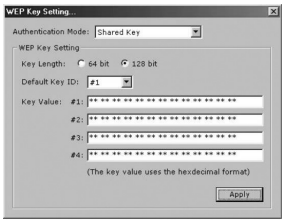
Security

Security can be set at 64 or 128-bit encryption. We advise you to use 128-bit encryption. The use of WEP (Wireless Encryption Protocol) requires extra computing power, so performance will be a little lower than without WEP. However, in practice this will be barely noticeable.

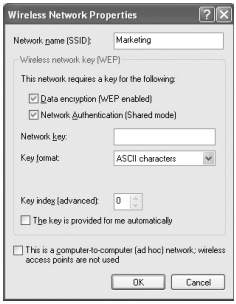
N.B.!

Before the encryption codes are configured, the new encryption codes must be set in the router first. If the router already has encryption codes, these codes can be filled in for the new wireless product.

Setting WEP encryption



Set the “Authentication Mode” to “Shared Key”. Then set "Key length" to 64 bit or 128 bit.
Under “Key Value #1”, fill in a number code for encryption protection. For 64 bit, you have to fill in 10 characters and for 128 bit, you have to fill in 26 characters. Random numbers from 0 up to and including 9 and letters from A up to and including H can be used. Fill in at least one field and no more than four fields. Click on "Apply" after you have filled in the codes.


Wireless Network Properties
Network name (SSID): Marketing
Wireless network key (WEP)
This network requires a key for the following:
Data encryption (WEP enabled)
Network Authentication (Shared mode)
Network key:
Key format: ASCII characters
Key index (advanced): 0
The key is provided for me automatically
This is a computer-to-computer (ad hoc) network; wireless access points are not used
OK
Cancel

If the wireless network is configured with Windows XP configuration software, remove the check mark from: "the key is provided for me automatically". Select "WEP" under "Data encryption". Enter the network key (encryption code) that matches the code in the router.

If you configure the wireless network with the supplied software, please refer to the comprehensive English-language manual on the CD-ROM.

Warranty

All articles that are carried under the name Sweex Essentials have a 3-year term of guarantee. Only the Sweex Digital photo and video cameras have a 2-year term of guarantee. We do not provide support or warranty for the supplied software or (rechargeable) batteries.

Settlement of guarantee takes place only via the dealer where you have purchased the product in question.